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2615

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TRANSMITTAL FORM <small>(to be used for all correspondence after initial filing)</small>	Application Number	09/331,008	
	Filing Date	07/08, 1999	
	First Named Inventor	Eriko Shimizu	
	Art Unit	2615	
	Examiner Name	Tia M Harris	
Total Number of Pages In This Submission	9	Attorney Docket Number	Confirmation NO 1123

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Group
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<input checked="" type="checkbox"/> Amendment/Reply (2 pages with 6 annex sheets)	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
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<input type="checkbox"/> Certified Copy of Priority Document(s)	Remarks	
<input type="checkbox"/> Response to Missing Parts/Incomplete Application	This is the <u>re-submission</u> of the revised correction of the Amendment Document asking to replace to the previously submitted on Dec. 23, 2003 to the "Notice of Non-Compliant Amendment" (mailed 12/01, 2003). Claims and claim details that contained incorrect parts are all replaced.	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

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SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Eriko Shimizu
Signature	<i>Eriko Shimizu</i>
Date	December 25, 2003

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Signature	<i>Eriko Shimizu</i>
Date	December 25, 2003

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Revised correction of The AMENDMENT DOCUMENT
(replace to the Correction submitted on Dec. 23, 2003)

This is the re-submission of the revised correction of the Amendment Document asking to replace to previously submitted Corrected Amendment Document on Dec. 23, 2003 to the "Notice of Non-Compliant Amendment (mailed 12/01, 2003)".

In this document, sheet sets of "Corrected complete listing of claims" and "Detail of claim amendments" that contained some incorrect parts by an error are all replaced.

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INTRODUCTORY COMMENTS of Correction

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This is the correction to the "Notice of Non-Compliant Amendments (Date mailed 12/01/2003)"

1. Items to be corrected

The applicant received the Notice (Date mailed 12/01/2003) that the following checked items cause the amendment document to be non-compliant.

☒ 4. Amendments to the claims:

- ☒ A.
- ☒ C.
- ☒ E. Other:

Claims 1-6 are not mentioned in complete listing of claims.

The abstract should be in narrative form, generally limited to a single paragraph on a separate sheet with 50~150 words.

2. The correction of "Amendments to the claims"

Claims

Claims are corrected as the attached "Corrected complete listing of claims" (claims sheet 1/2 and 2/2) sheets that correspond to the checked items 4-A, 4-C, and 4-E of the notice.

In this list, Claim 1 and claim 2 are canceled after amended to claim7 and claim11 as the new claim. Claims3-4 and claims5-6 are also canceled after amended to claims9-10 and claims12-13 as the new claims respectively.

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And claim 8 is newly settled relating to claim 1.

For reference, details of changed parts of claim 7-13 are shown in attached "Details of claim amendments" (claims detail 1/2 and 2/2) sheets.

Abstract

If the amendment of abstract that corresponds to the checked item 4-E is also required to correct to become compliant and is possible to correct at this correction, the abstract is corrected as the attached "Corrected AMENDED ABSTRACT (clean version)" (abstract sheet 1/1) sheet.

And the details of the correction are shown in attached "Details of corrected AMENDED ABSTRACT (marked up version)" (abstract detail 1/1) sheet, for reference.

Re-submitted on

December 25, 2003

Eriko Shimizu
Eriko Shimizu

Applicant/Inventor

Application Number: 09/331,008
Title: Electronic zoom image input method
Inventor: Eriko Shimizu
Art Unit: 2615

Claims Sheet 1/2

(Revised)

Corrected complete listing of claims

Claims 1-6 (canceled)

Claim 7 (new) ; An electronic zoom image input method that enables zooming without degrading the resolution, by including the fixed focus input image optical system having a function of compressing the circumferential part of the input image, the image input device providing preferably uniform pixel density, and the zoom image converting and correcting system.

Claim 8 (new) ; An electronic zoom image input method that enables zooming without degrading the resolution, by including the fixed focus input image optical system having a function of compressing the circumferential part of the input image in logarithmic function, and the zoom image converting and correcting system.

Claim 9 (new); An electronic zoom image input method claimed in claim 7, that has the optical system where the compression of the circumferential part of the input image is limited to the vertical and horizontal direction.

Claim 10 (new); An electronic zoom image input method claimed in claim 7, that has a image input device with a rectangular input image plane, and an optical system with the function of compressing the circumferential part of the input image to all direction, and the neighboring part of the vertical and horizontal axes of the input image.

Claim 11 (new); An electronic zoom image input method claimed in Claim 7, or claim 8, or claim 9, or claim 10, where the optical system that compresses the circumferential part of the input image is included as the attachment optical system.

Claim 12 (new); An electronic zoom image input method claimed in claim 7, or claim 8, or claim 9, or claim 10, that is capable to change the zooming range, having attachment conversion lenses to change the focal length of the image input optical system.

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Claims Sheet 2/2

Claim 13 (new) ; A 3D image input method whose right and left image input optical systems are organized by fixed focus input image optical systems of the electronic zoom image input method claimed in claim 7, or claim 8, or claim 9, or claim 10.

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Title: Electronic zoom image input method
Inventor: Eriko Shimizu
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Claims Detail 1/2

(Revised)

Details of claim amendments

Claims 1-6 (canceled)

Claim 7 (new claim amended from claim 1)

An electronic zoom image input method that enables zooming without degrading the resolution, by including the fixed focus input image optical system having a function of compressing the circumferential part of the input image, the image input device providing preferably uniform pixel density [pixel], and the zoom image converting and correcting system.

Claim 8 (newly settled claim relating to claim 1)

An electronic zoom image input method that enables zooming without degrading the resolution, by including the fixed focus input image optical system having a function of compressing the circumferential part of the input image in logarithmic function, [the image input device providing preferably uniform density pixel], and the zoom image converting and correcting system.

Claim 9 (new claim amended from claim 3)

An electronic zoom image input method claimed in claim 7, [claim 1, or claim 2] that has the optical system where the compression of the circumferential part of the input image is limited to the vertical and horizontal direction.

Claim 10 (new claim amended from claim 4)

An electronic zoom image input method claimed in claim 7, [claim 1, or claim 2,] that has a image input device with a rectangular input image plane, and an optical system with the function of compressing the circumferential part of the input image to all direction, and the neighboring part of the vertical and horizontal axes of the input image.

Claim 11 (new claim amended from claim 2)

An electronic zoom image input method claimed in claim 7, [Claim 1,] or claim 8, or claim 9, or claim 10, where the optical system that compresses the circumferential part of the input image is included as the attachment optical system.

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Claims Detail 2/2

Claim 12 (new claim amended from claim 5)

An electronic zoom image input method claimed in claim 7, or claim 8, or claim 9, or claim 10, [claim 1, or claim 2, or claim 3, or claim 4,] that is capable to change the zooming range, having attachment conversion lenses [an attachment optical system] to change the focal length of the image input optical system.

Claim 13 (new claim amended from claim 6)

A 3D image input method whose right and left image input optical systems are organized by fixed focus input image optical systems of [include] the electronic zoom image input method claimed in claim 7, or claim 8, or claim 9, or claim 10 [claim 1, or claim 3, or claim 4, or claim 5].

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Abstract sheet 1/1

Corrected AMENDED ABSTRACT (clean version)

Abstract

An electronic zoom image input method that enables zooming without declining the resolution by receiving an input image transmitted through a fixed focal distance optical system having a function of compressing the circumferential part of the input image by means of a photo detector with a uniform pixel density and subjecting the received image to image correction and conversion to obtain an output image. Three dimensional image input system is realized by preparing each image input system of both left and right view with this electronic zoom image input method.

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Inventor: Eriko Shimizu
Art Unit: 2615

Abstract detail 1/1

Details of corrected AMENDED ABSTRACT (marked up version)

Abstract

An electronic zoom image input method that enables zooming without declining the resolution by receiving an input image transmitted through a fixed focal distance optical system having a function of compressing the circumferential part of the input image by means of a photo detector with a uniform pixel density and subjecting the received image to image correction and conversion to obtain an output image. Three dimensional image input system is realized by preparing each image input system of both left and right view with this electronic zoom image input method.

[It is necessary for zooming to use a conventional optical zoom lens that essentially has a complex and large construction. Instead, by using a simple fixed focal distance lens, a small, simple, all-electronic zoom image input system is realized.]

[Further, three-dimensional zooming, which conventionally requires precise interlock of two zoom lenses, can be realized with a very simple construction without using these complicated zoom lenses.]